

17

SEQUENCE LISTING

| <110> | Fang, | Rong- | Xiang |
|-------|-------|-------|-------|
|-------|-------|-------|-------|

<120> ENHANCED PROTEIN PRODUCTION IN HIGHER PLANTS BY N-TERMINAL FUSION OF A UBIQUITIN OR A CUCUMBER MOSAIC VIRUS COAT PROTEIN PEPTIDE

<130> 2248-109

<140>

<141>

<160> 14

<170> PatentIn Ver. 2.0

<210> 1

<211> 235

<212> DNA

<213> Nicotiana tabacum

<220>

<221> CDS

<222> (3)..(230)

<220>

<223> Modified from wild-type to insert an SphI site in the region encompassing the initiation codon ATG and to insert an NcoI site following the last codon GGC.

<400> 1

gc atg cag atc ttc gta aag acc ctg acg ggg aag act att acc tta

Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu

1 5 10 15

gag gta gag tca tcg gac acc att gac aat gtt aag gct aag att cag 95 Glu Val Glu Ser Ser Asp Thr Ile Asp Asn Val Lys Ala Lys Ile Gln 25

gac aag gaa ggc att cca ccg gac cag cag cgg ttg att ttc gca ggt 143
Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly

aag cag ctt gag gat ggc cga aca cta gct gac tac aac atc cag aag 191 Lys Gln Leu Glu Asp Gly Arg Thr Leu Ala Asp Tyr Asn Ile Gln Lys

gag too act oto cat oto gto tta aga oto ogo ggt ggo catgg 235 Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly
65 70 75

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<211> 76
<212> PRT
<213> Nicotiana tabacum
Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu
Val Glu Ser Ser Asp Thr Ile Asp Asn Val Lys Ala Lys Ile Gln Asp
Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
                             40
         35
Gln Leu Glu Asp Gly Arg Thr Leu Ala Asp Tyr Asn Ile Gln Lys Glu
                         55
Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly
<210> 3
<211> 53
<212> DNA
<213> cucumber mosaic virus
<220>
<221> CDS
<222> (6)..(47)
<400> 3
gatee atg gae aaa tet gaa tea ace agt get ggt egt aac egt ega
     Met Asp Lys Ser Glu Ser Thr Ser Ala Gly Arg Asn Arg Arg
                        5
                                                                   53
cgagct
<210> 4
<211> 14
<212> PRT
<213> cucumber mosaic virus
Met Asp Lys Ser Glu Ser Thr Ser Ala Gly Arg Asn Arg Arg
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<210> 5
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<212> DNA
<213> Plasmid pSKUBC1
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<213> Plasmid pBIubi

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<220>
<221> misc_feature
<222> ()..)
<223> Joining region of fusion of two genes.
<400> 5
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ggccatggac aaa
<210> 6
<211> 33
<212> DNA
<213> Plasmid pBI221
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<222> (1)..(33)
<223> Joining region between 35S promoter and GUS gene.
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tctagaggat ccccgggtgg tcagtccctt atg
<210> 7
<211> 18
<212> DNA
<213> Plasmid pUG
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<223> Joining region of fusion of genes.
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                                                                    18
ggccatggat ccccgggt
<210> 8
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<212> DNA
<213> Plasmid pUCG2
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ctccgcggtg gcatggac
<210> 9
<211> 29
<212> DNA
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20

| <220> <221> misc_feature <222> (1)(29) <223> Joining region between promoter and fused gene. | |
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| <400> 9 tetagaacta gtggateeet ggeatgeag | 29 |
| <210> 10 <211> 35 <212> DNA <213> Plasmid pBIubi | |
| <220> <221> misc_feature <222> (1)(35) <223> Final 2 codons of the ubiquitin gene followed by polylinker sequence. | |
| <400> 10 ggaggeetgt egaetegage eegggtaceg agete | 35 |
| <210> 11 <211> 12 <212> DNA <213> Plasmid pUL | |
| <220> <221> misc_feature <222> (1)(12) <223> Joining region between fusion of genes. | |
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| <210> 12 <211> 12 <212> DNA <213> Plasmid pCL | |
| <220> <221> misc_feature <222> (1)(12) <223> Joining region between fusion of genes. | |
| <400> 12 cgtcgcatgg aa | 12 |

WO 00/36129

| <210> | 13 | |
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| <211> | 29 | |
| <212> | DNA | |
| <213> | Plasmid pBIubi | |
| | | |
| <220> | | |
| | misc_feature | |
| <222> | (1)(29) | |
| <223> | Joining region of fusion of promoter and gene. | |
| | | |
| <400> | | 29 |
| tctaga | acta gtggatccct ggcatgcag | |
| | | |
| | • • | |
| <210> | | |
| <211> | | |
| <212> | | |
| <213> | Plasmid pBIubi | |
| | | |
| <220> | | |
| | misc_feature | |
| <222> | (1)(35) | |
| <223> | Joining region with multicloning sequence between | |
| | fusion of gene and terminator. | |
| | | |
| <400> | 14 | 35 |
| ggagg | cctgt cgactcgagc ccgggtaccg agctc | |
| | | |